



Security is Just Another Word without Collective Intelligence

2013

DS Benbow, VP Marketing

DS BENBOW CLIFF NOTES

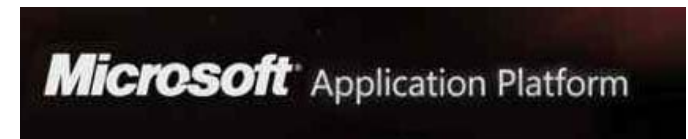


WPP
ICONMOBILE



Developer Program

- Lots of startups! (OK only 4)
- Early career: Market Analyst



ABOUT INTERNET IDENTITY

LOCATION	Tacoma, Washington
FOUNDED	1996
WEBSITE	www.internetidentity.com
CUSTOMER FOCUS	Fortune 2,000, financial services, major internet brands, defense, critical infrastructure
THOUGHT LEADERSHIP	FCC: Communication, Reliability and Interoperability Council APWG: Anti-Phishing Working Group ICANN: Security and Stability Advisory Committee OTA: Online Trust Alliance FIRST: Forum of Incident Response and Security Teams MAAWG: Messaging Anti-Abuse Working Group

Cyberattacks continue to increase in terms of sophistication, organization, and destructive impact...

“In the past 18 months, a string of highly sophisticated and targeted cyber attacks across the globe has revealed a seismic shift in the threat landscape.” 2011 RSA CISO Report

“Big Data Emerges as a Security Tool” GRT

“What's being stolen? Personal identities, money from banks, blueprints for next-generation jobs. Some estimates put the value of information hacked at up to \$US400 billion every year.” Article: Almost all US networks can be hacked: Intelligence Committee

“NSA Director on Cyberattacks- ‘Everybody’s Getting Hit’” ABC News

HYPOTHESIS

- Actionable intelligence matters (not data)
- Faster intelligence equals better protection (speed kills)
- Crowdsourcing equals greater efficacy than silos (collaboration = good)



CURRENT LANDSCAPE: THE BATTLE IS ASYMMETRICAL

Antivirus software **powerless** to stop data breach attacks. CIO.com, 2/9/12

DNSChanger infected **half** of Fortune 500 in 2012
[Computerworld](http://Computerworld.com), 2/2/12

Cost of data breaches averages **\$7.2M, or \$214** per customer record [per Ponemon Institute, The Atlantic](http://PonemonInstitute.com), 2/16/12

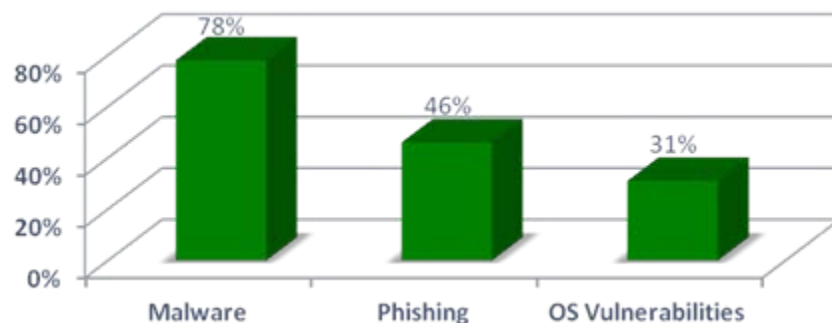
...**91** percent of cyber attacks begin with a "spear phishing" email...computerworld.co.nz/, Dec 2012



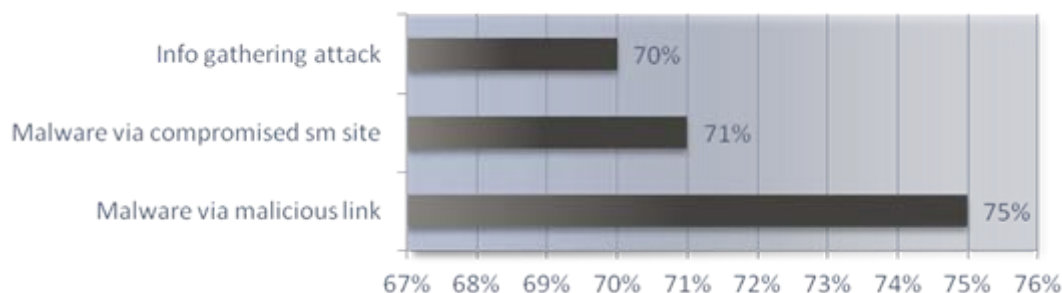
Cyber crime is a permanent part of the Internet tapestry—it's here to stay

MORE OBLIGATORY DATA POINTS

Top Causes for Security Breaches in 2011



Top 3 Types of Threats Posed by Social Media in 2011



Dealing with rampant malware is time and resource intensive

WHAT'S IMPORTANT TO IT SECURITY

The #1 most important metric in determining value of a particular security investment:

Reduction in incident response time NO

Decline in amount of network downtime NO

Better risk management strategies NO

Decline in breaches NO

Better protection of customer records/intellectual property NO

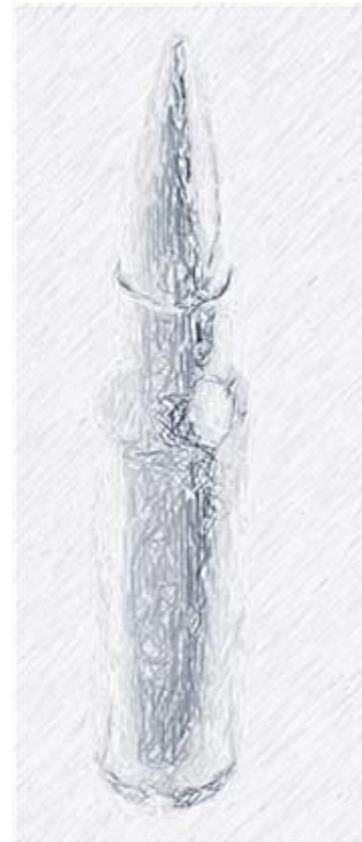


Fewer man hours spent on security-related issues: YES!

NO SILVER BULLET

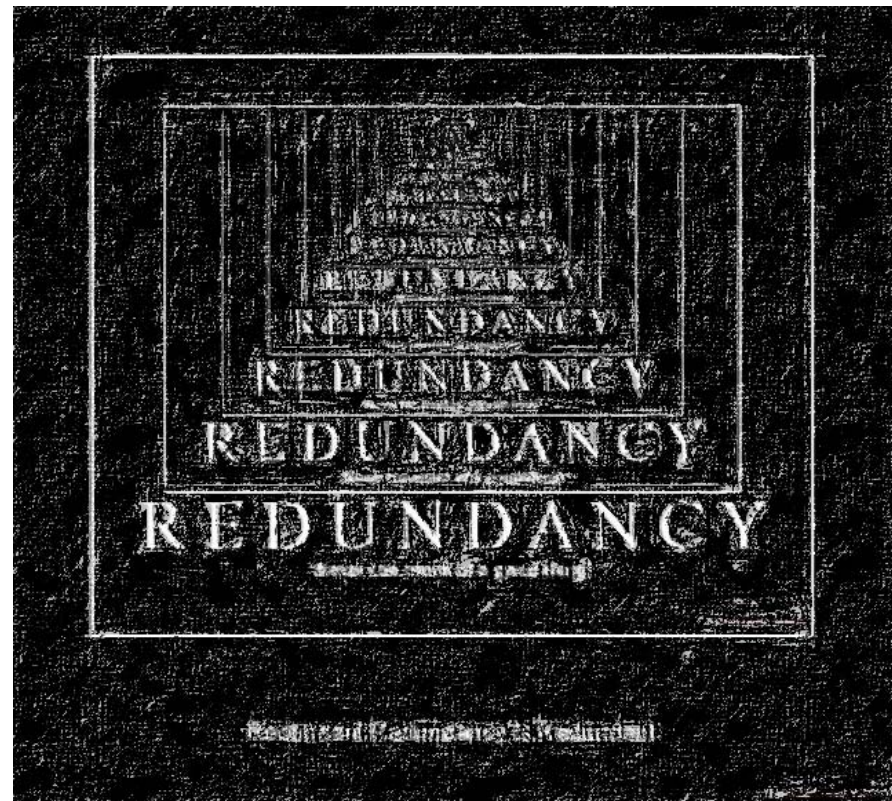
There is no **single**
point solution to
cybercrime

Heuristics vs.
Signatures is a
false argument



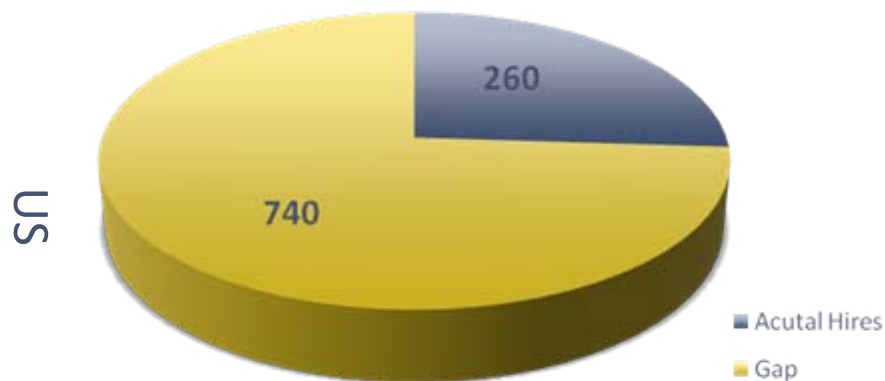
OPTIMIZE WHAT YOU HAVE

Most orgs don't
have access to
known knowns
and waste cycles
determining
what's already
been determined



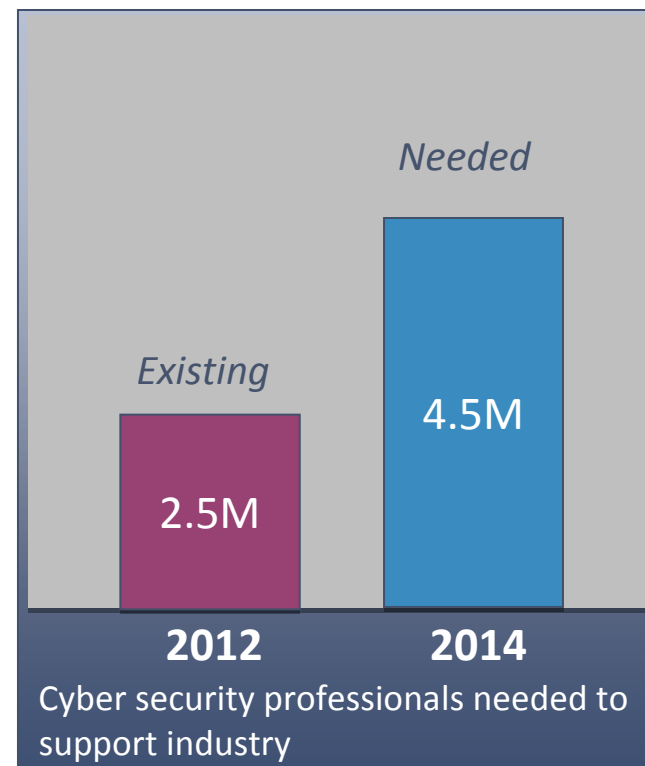
HUMAN RESOURCE SHORTAGE

Department of Homeland Security



In 2009, the DHS announced plans to recruit 1,000 cyber professionals over three years. As of 2011, DHS had only managed to hire about 260.

Globally

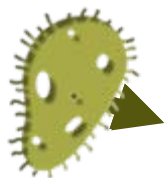


The new model needs to highly leverage human capital

<http://www.darkreading.com/security/news/240001380/federal-officials-say-cybersecurity-is-greatest-high-risk-skill-gap.html>

<http://www.cnas.org/csmonitor-cybersecurity-kristin-lord-jacob-stokes>

Current silo approaches are costly ...



The lack of shared learning creates efficiency for bad actors

It is truly maddening to see examples of bad guys sharing data, tricks, methods and good guys having no effective way of doing it

Anton Chuvakin, Gartner Research Director

BLACKHOLE EXPLOIT

Black hats are as sophisticated as white hats, sometimes more so...

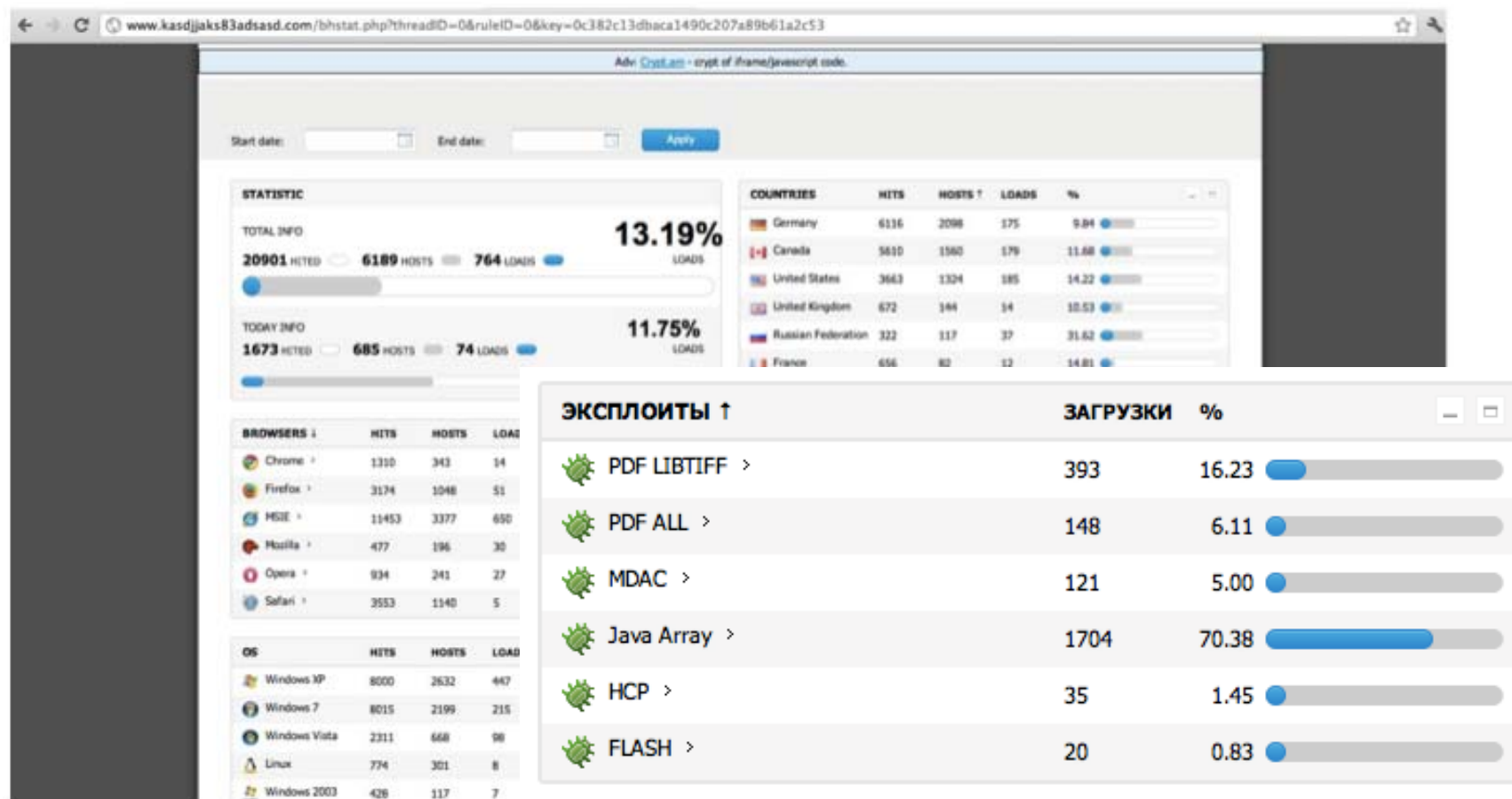
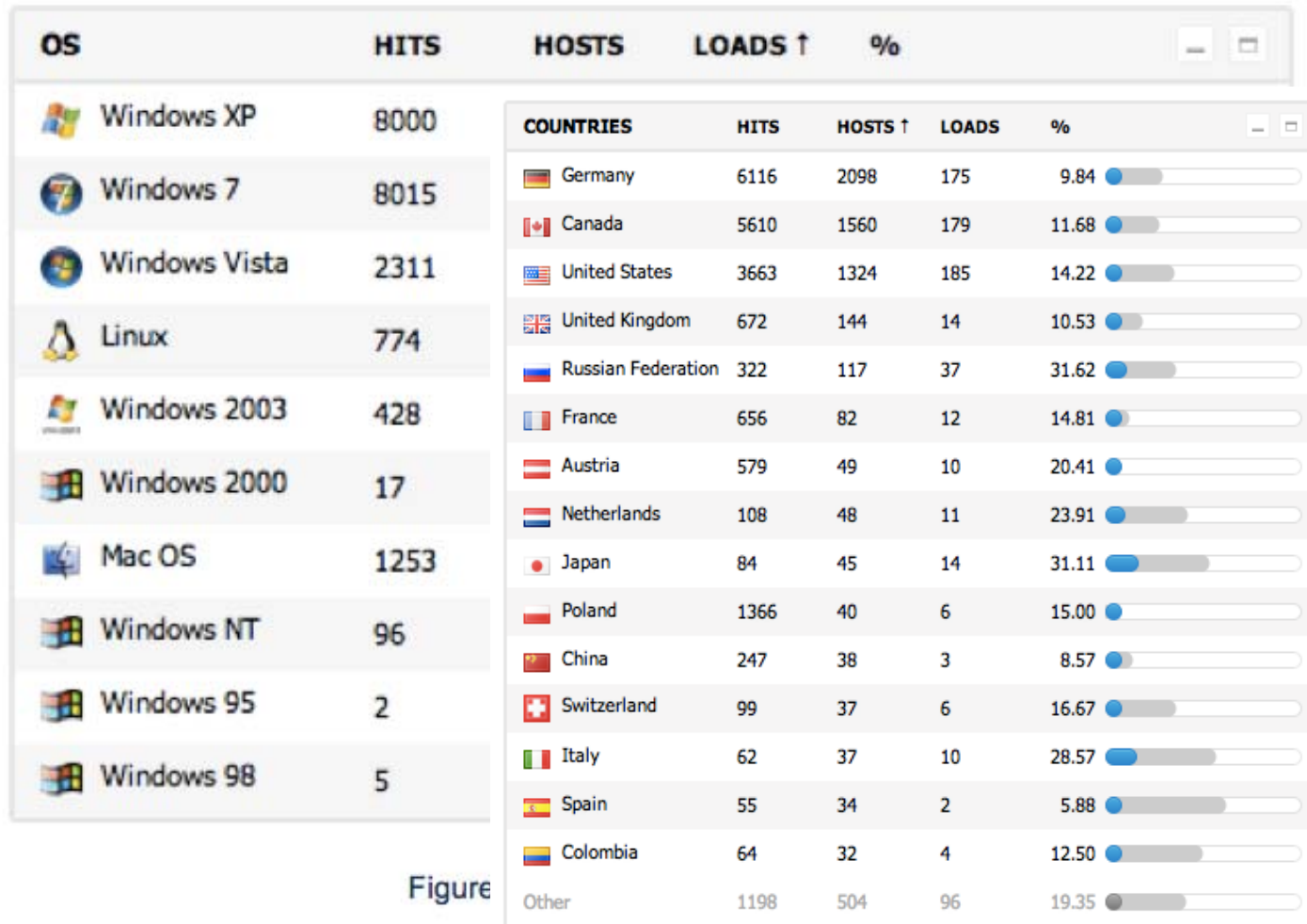


Figure 6 Administrator Statistics page

BLACKHOLE EXPLOIT CONT.

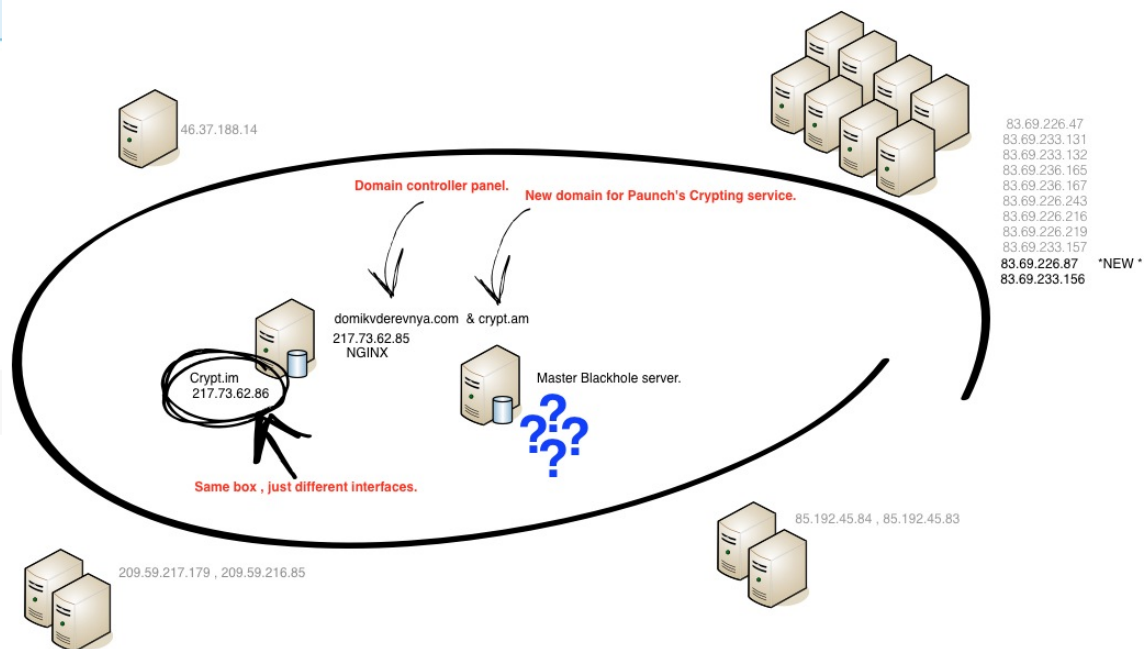
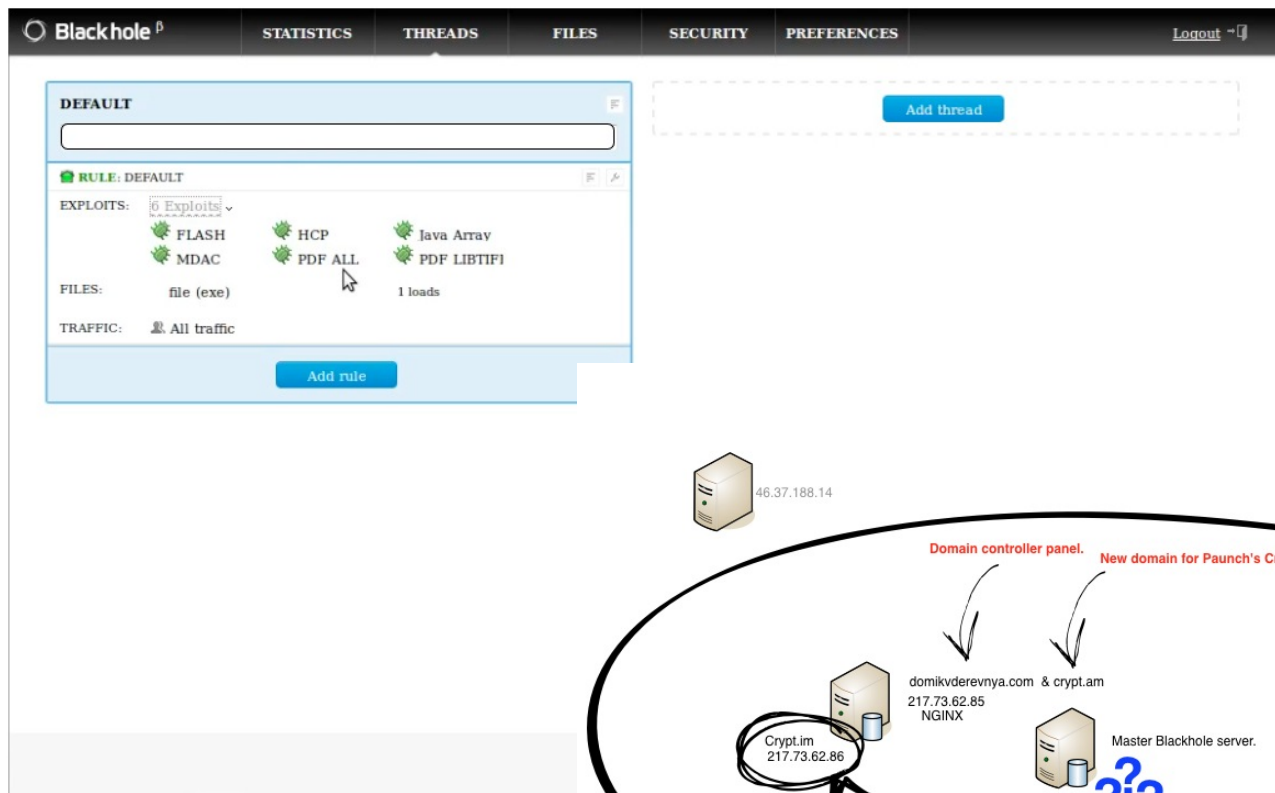


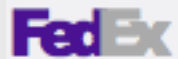
Figure

- Buy outright
- Hosted
- Rent

The underground ecosystem is well developed and collaborative

BLACKHOLE EXPLOIT CONT.





Tracking ID: 9405-63263803

Date: Monday, 11 February 2013, 10:22 AM

Dear Client,


Your parcel has arrived at February 18. Courier was unable to deliver the parcel to you at **18 February 06:33 PM**.

To receive your parcel, please, print this receipt and go to the nearest office.

[Print Receipt](#)

Best Regards, The FedEx Team.

FedEx 1995-2013

From: qrrzf <elntwdepg@ppl.com> 
Subject: wuuo车间管理的奥秘lenmwufqx
Date: January 7, 2013 3:58:49 PM PST
To: info@internetidentity.com

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Quick Look



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From: LinkedIn Notification <innovatorswzz@ataportfoy.com.tr>
Subject: LinkedIn Notification service message
Date: October 11, 2012 6:56:23 AM PDT
To: info@internetidentity.com

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LinkedIn

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-


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Welcome to UPS Team

Dear, sales @ internetidentity.com.

Dear Client , RECIPIENT'S ADDRESS IS WRONG

Please print out the invoice copy attached and collect the package at our department.

With best regards , UPS Customer Services.

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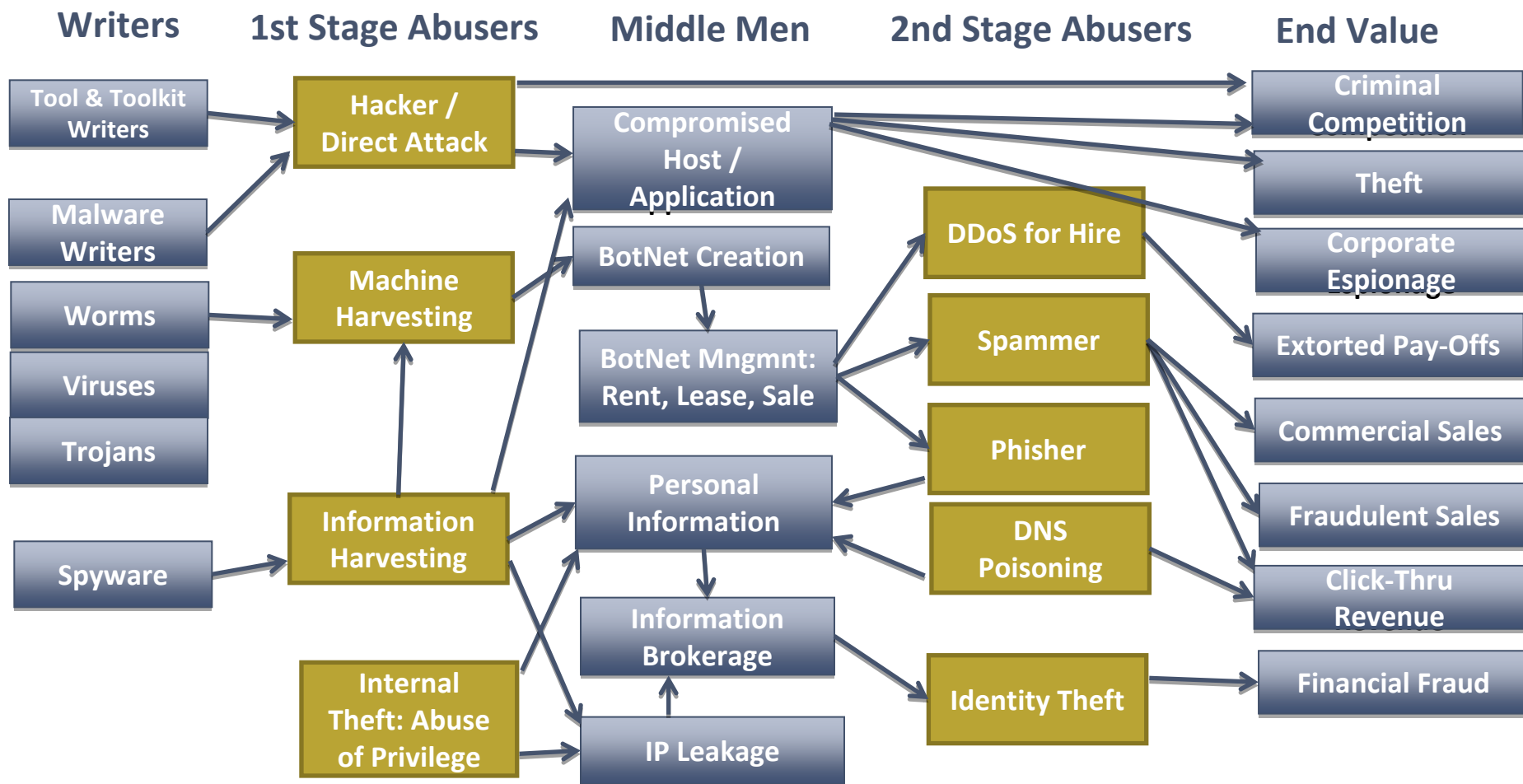
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EVOLUTION OF THREAT ECONOMY: PRESENT



The Threat Economy Is a Thriving Business With Vast Complexity

Negative consequences can be significant...

- Stolen / lost revenue
- Exfiltration of intellectual property
- Erosion of BRAND
- Disruption of network uptime
- Degraded IT reputation
- And the **most** important loss...



If something happens at your organization, the first question you'll ask is, "Is it just me or is everybody else getting hit with this attack?" You can't answer that for yourself... You've got to be part of a larger gene pool to get an immediate answer...

— *Renee Guttman, Chief Information Security Officer, The Coca Cola Company*

Collaboration is critical...

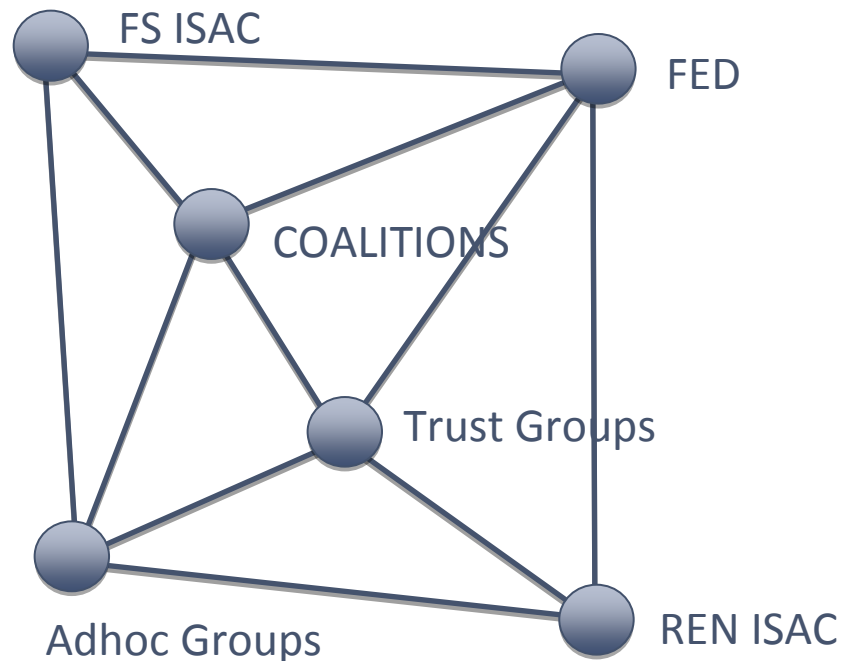
The issue of botnets is larger than any one industry or country. This is why partnership is so important

—Howard Schmidt, former White House Cybersecurity Coordinator



The new model needs to adapt to today's volume and velocity of information

CONNECT AND COLLABORATE WITH EXISTING TRUST GROUPS



SCALE your efforts beyond current known contacts - if we're hit, chances are you're not alone

+

Extend your **Reach** beyond your own island of trust – collaboration can lead to new insights and learnings

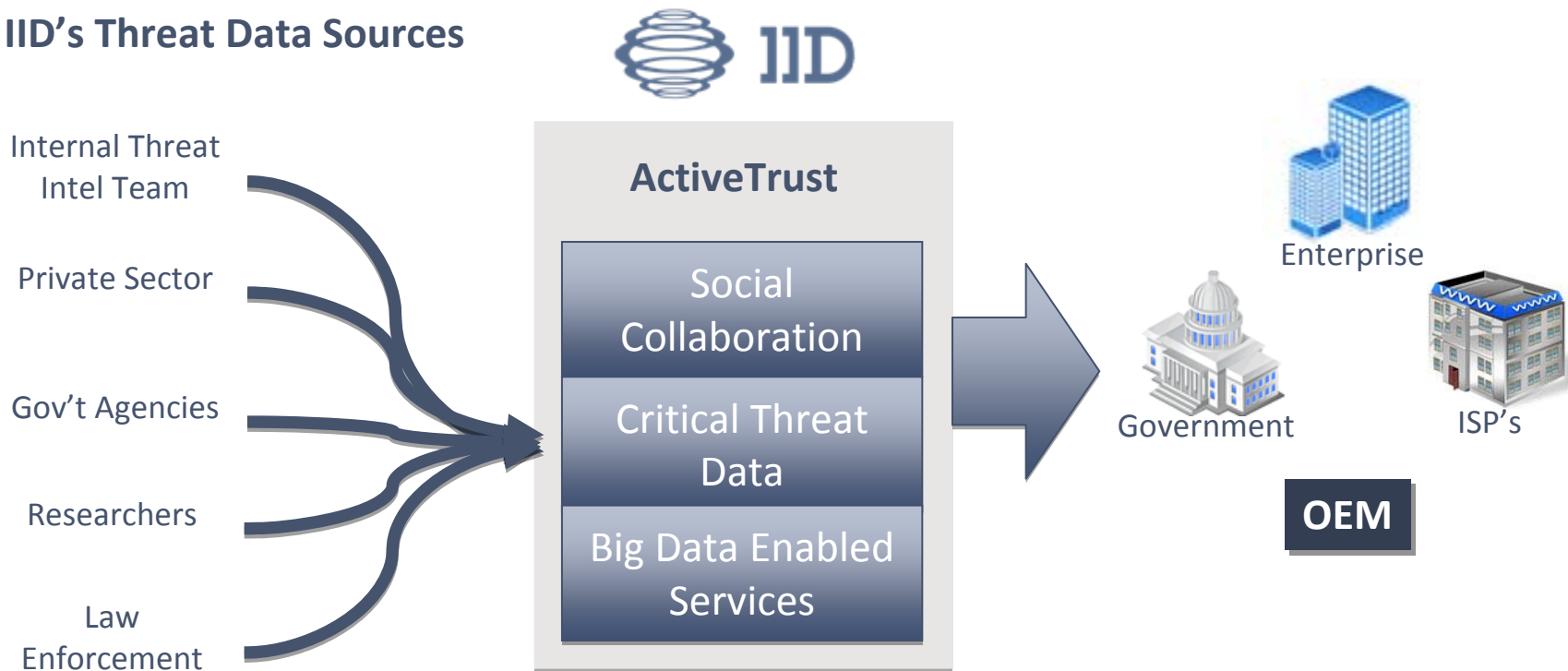
+

Leveraging a network to access actionable information faster leads to increased **EFFICACY**

We don't need another trust group

Information collection, exchange and analytics to produce the best actionable intelligence for the cybersecurity industry

IID's Threat Data Sources





Thank you

Questions?

www.internetidentity.com